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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/048,119	06/10/2002	Reiner Gieck		1678
	7590 05/13/200 & LLOYD, LLP	EXAMINER		
P.O. BOX 1135	j	AGHDAM, FRESHTEH N		
CHICAGO, IL 60690			ART UNIT	PAPER NUMBER
			2611	
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			05/13/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)
	10/048,119	GIECK, REINER
Office Action Summary	Examiner	Art Unit
	FRESHTEH N. AGHDAM	2611
The MAILING DATE of this communication a Period for Reply	appears on the cover sheet with the	correspondence address
A SHORTENED STATUTORY PERIOD FOR REF WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by stat Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATIO 1.136(a). In no event, however, may a reply be ti od will apply and will expire SIX (6) MONTHS fron cute, cause the application to become ABANDONI	N. mely filed the mailing date of this communication. ED (35 U.S.C. § 133).
Status		
1) ☐ Responsive to communication(s) filed on 10 2a) ☐ This action is FINAL. 2b) ☐ This action is FINAL. 2b) ☐ This action is application is in condition for allow closed in accordance with the practice under	nis action is non-final. vance except for formal matters, pr	
Disposition of Claims		
4) ☐ Claim(s) <u>1-10</u> is/are pending in the application 4a) Of the above claim(s) is/are withd 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) <u>1,2,4 and 10</u> is/are rejected. 7) ☐ Claim(s) <u>3 and 5-9</u> is/are objected to. 8) ☐ Claim(s) are subject to restriction and	rawn from consideration.	
9) The specification is objected to by the Exami 10) The drawing(s) filed on is/are: a) a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct and t	ccepted or b) objected to by the ne drawing(s) be held in abeyance. Se ection is required if the drawing(s) is ob	e 37 CFR 1.85(a). ojected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority docume application from the International Bure * See the attached detailed Office action for a li	ents have been received. ents have been received in Applicat riority documents have been receive eau (PCT Rule 17.2(a)).	ion No ed in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal C 6) Other:	ate

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on April 10, 2008 has been entered.

Response to Arguments

Applicant's arguments filed April 10, 2008 have been fully considered but they are not persuasive.

Applicant's Argument(s):

Regarding claim 1, page 5, the applicant argues that the claimed invention is not taught or suggested by Goodson "determining in a test setup and storing in a table at least one transmission method, with at least one transmission speed that represents a maximum data throughput rate for different line parameters of lines".

Examiner's Response:

Regarding to the argument set forth above, the examiner disagrees with the applicant because Goodson teaches determining in a test setup (during the training period, col. 10, line 9-10) and storing in a table at least one transmission method, with at least one transmission speed that represents a maximum data

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throughput rate for different line parameters of lines (col. 9, lines 42-67, col. 1-20).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-2, 4, and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Goodson et al (US 5,715,277).

As to claim 1, Goodson discloses a method of data transmission comprising: determining and storing in a table (e.g. in a memory including at least a lookup table) at least one transmission method, with at least one transmission speed (e.g. carrier frequency/ symbol rate) that represents a maximum data throughput rate (e.g. maximum bit rate) for different line parameters of a line (e.g. SDR value, line attenuation, and so forth); measuring line parameters of a line (e.g. distortion; Col. 1, lines 32-60) using at least one transmission method (e.g. probe signals L1 and L2); and selecting a transmission method having a transmission speed in which the measured line parameters are most compatible (Col. 9, lines 30-67, Col. 11, lines 36-67). Goodson does not expressly disclose determining and storing in a table at least one transmission method with at least one transmission speed that represents a maximum data throughput rate for

different line parameters of lines. However, one of ordinary skill in the art would recognize that each modem (such as modems 100 and 101) may communicate with more than one other modem. Therefore, it would have been obvious to one of ordinary skill in the art to include more than one lookup table in memory, wherein each lookup table contains information of at least one transmission method with at least one transmission speed that represents a maximum data rate for different line parameters of lines in order to save space in said modem or reduce size of said modem.

As to claim 2, Goodson discloses that the line parameters are represented by the attenuation of the line and interference of the line (e.g. SNR value or BER value; Fig. 8, means 825). Goodson does not expressly disclose the line parameters are represented by the running time of the line. However, one of ordinary skill in the art would recognize that the more line parameters (such as running time, envelope delay distortion, and so forth) measured the higher the accuracy of the selected transmission method and transmission speed in view of the maximum allowable data throughput is. Therefore, it would have been obvious to one of ordinary skill in the art to measure the running time in addition to the attenuation and interference for the reason stated above.

As to claim 4, Goodson discloses that the maximum data rate for different line parameters is determined with different transmission methods and transmission speeds, by selecting the transmission methods in the frequency range of which the line parameters demonstrate the least variations (Fig. 8, means 829 and 840; Col. 9, lines 30-67, Col. 11, lines 36-67). Goodson does not

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expressly disclose the line parameters are represented by the running time of the line. However, one of ordinary skill in the art would recognize that the more line parameters (such as running time, envelope delay distortion, and so forth) measured the higher the accuracy of the selected transmission method and transmission speed in view of the maximum allowable data throughput is. Therefore, it would have been obvious to one of ordinary skill in the art to measure the running time in addition to the attenuation and interference for the reason stated above.

As to claim 10, Goodson discloses determining in a test set up and storing in the table, a wide variety of transmission procedures and line properties at different frequencies and frequency ranges (Col. 2, lines 25-47).

Allowable Subject Matter

Claims 3 and 5-9 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to FRESHTEH N. AGHDAM whose telephone number is (571)272-6037. The examiner can normally be reached on 9:00-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chieh Fan can be reached on 571-272-3042. The fax

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phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Freshteh N Aghdam/

Examiner, Art Unit 2611

/CHIEH M FAN/

Supervisory Patent Examiner, Art Unit 2611